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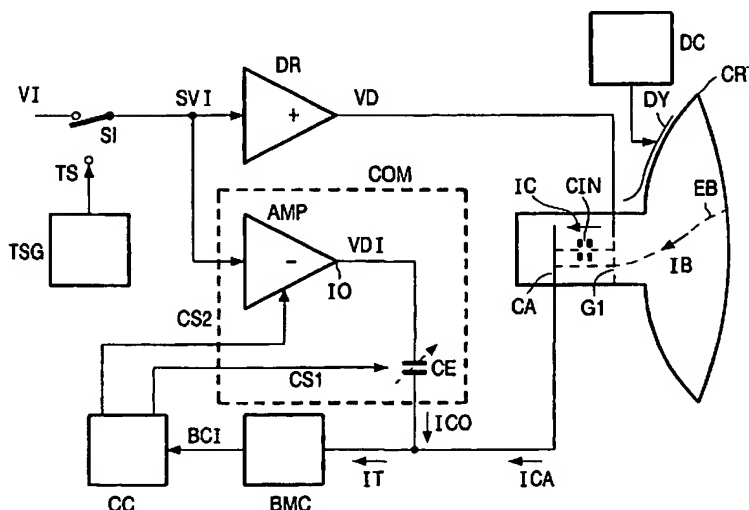
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(54) Title: BEAM CURRENT MEASUREMENT



(57) Abstract: The display apparatus comprises a picture tube (CRT) with an electron gun which generates an electron beam (EB) directed towards a display screen. The electron gun comprises a first and a second electrode (CA, G1). The electron beam (EB) originates from the first electrode (CA). The voltage between the first electrode (CA) and the second electrode (G1) controls the intensity of the electron beam (EB). A beam current (IB) flows in the first electrode (CA) in response to the electron beam (EB). A total current (ICA) in the first electrode (CA) is the sum of the beam current (IB) and a current (IC) flowing through a capacitance (CIN) between the first and the second electrode (CA, G1). A compensation circuit (COM) supplies a compensation current (ICO) to the first electrode (CA) to compensate for a capacitive current (IC) through a capacitance (CIN) between the first and the second electrode (CA, G1). A beam current measurement circuit (BMC) measures the total current (IT) which is the sum of the total current in the first electrode (ICA) and the compensation current (ICO).



CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE,

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

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Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 809 398 A (NIPPON ELECTRIC CO) 26 November 1997 (1997-11-26)	1, 10
A	abstract; figures 1,2,4 column 3, line 7 -column 3, line 31 column 4, line 5 -column 5, line 27 ---	2-9
A	US 5 455 635 A (KELLER ANTON W) 3 October 1995 (1995-10-03) abstract column 1, line 54 -column 3, line 44; figures 3,4,6,7 ---	1-10
A	EP 0 840 272 A (WELCH ALLYN INC) 6 May 1998 (1998-05-06) page 2, line 50 -page 3, line 22 abstract; figures 1-3 --- -/--	1-10

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 285 401 B1 (GRIEPENTROG DAL FRANK) 4 September 2001 (2001-09-04) abstract; figures 1,4 -----	1-10

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